



Facility Permit No: SLAS-23-11
Rhea's Septic Tank Service
Permit to Operate
July 2, 2014
Page 1 of 4

North Carolina Department of Environment and Natural Resources

Pat McCrory
Governor

John E. Skvarla, III
Secretary

STATE OF NORTH CAROLINA
DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
DIVISION OF WASTE MANAGEMENT
SOLID WASTE SECTION

**PERMIT TO OPERATE A SEPTAGE LAND
APPLICATION SITE**

Rhea's Septic Tank Service
Trent Rhea
5030 Harmon Road
Kings Mountain, NC 28086

is hereby permitted to operate Septage Land and Application Site with permit # **SLAS-23-11** located on SR#2238 in Cleveland County in approximate position 35.20221° N latitude and -81.45483° E longitude. This site is permitted only for operations that are conducted in accordance with the representations made in the approved application, with all conditions attached to this permit, and with all of the provisions of 15A NCAC 13B.0800 -- Septage Management. Failure to operate as permitted may result in the Department suspending or revoking this permit, initiating action to enjoin the unpermitted operation, imposing administrative penalties, or invoking any other remedy as provided in Chapter 130A, Article 1, Part 2 of the North Carolina General Statutes.

This permit shall be reviewed annually to determine if soil test results and management activities are in compliance with the Septage Management Rules and the conditions of this permit. Modifications, where necessary, shall be made in accordance with rules in effect at the time of review.

Date Issued

7/2/2014

Martin A. Gallagher

Martin A. Gallagher, Branch Head
Composting & Land Application Branch

1646 Mail Service Center, Raleigh, North Carolina 27699-1646
Telephone 919-707-8200 \ Internet <http://portal.ncdenr.org/web/wm/sw>

CONDITIONS OF OPERATING PERMIT

1. This permit shall become void if the soils fail to adequately assimilate the septage and shall be rescinded unless the site is maintained and operated in a manner which will protect the assigned water quality standards both surface and ground waters.
2. This site shall be operated and maintained in accordance with the nutrient management plan submitted by Trent Rhea and approved by the Division of Waste Management. **The 2.0-acre site is established in tall fescue and shall be managed as one field.** The mandatory 30-day waiting period between the last application of septage and the harvest of a crop shall be maintained by utilizing the approved wastewater treatment plant or the permitted septage detention facility (permit #SDTF-23-20). All discharges shall be at locations on the site consistent with the crop rotation in the approved plan.
3. This site shall be operated and maintained in accordance with the erosion and runoff control plan submitted by Trent Rhea in such a manner as to prevent the migration of wastes off of the designated waste receiving site. A 100-ft fescue buffer where no septage is applied shall be maintained along the drainageway on the southeastern side and along the creek on the north side of the field. The remainder of the field perimeter shall remain in a buffer of mature woods. Any site improvements noted in the plan must be installed within 30 days of plan approval. The installation of groundwater monitoring wells shall be required as deemed necessary by the Division.
4. The issuance of this permit does not preclude the Permittee from complying with any and all statutes, rules, regulations, or ordinances that may be imposed by other local, state, and federal government agencies which have jurisdiction. It is the responsibility of the Permittee to be in compliance with the Federal Regulations listed in the Code of Federal Regulations, 40 CFR Part 503.
5. This permit may be modified or reissued at any time to incorporate any conditions, limitations and/or monitoring requirements the Division deems necessary to adequately protect the environment and public health.
6. **This site is only permitted for the land application of domestic septage and portable toilet waste.** Domestic septage pH shall be raised to 12 or higher by alkali addition and, without the addition of additional alkali, shall remain at 12 or higher for 30 minutes prior to land application.

7. **This site contains approximately 2.0 acres that are available for land application of septage.** The maximum annual application rate shall be 50,000 gallons per acre per year. At this application rate, a maximum annual volume of 100,000 gallons may be applied to this site. **GPS data for this site indicated a slight reduction in permitted disposal acreage and application rate from previous permits.** This application rate assumes equal septage distribution, on an annual basis, over the permitted area. Monthly septage applications shall not exceed the monthly relative application rates given in the approved nutrient management plan for the site.
8. An approved above ground septage detention system with a minimum design capacity of 1,923 gallons shall be available prior to operation of this site unless an approved wastewater treatment plant is available for use during periods of adverse weather. The storage capacity may be adjusted if it is demonstrated during the operation of the site that this volume of storage is inappropriate.
9. Only the area designated on the attached site map(s) shall be utilized for septage disposal. Each load of septage discharged at the site shall be distributed from a moving vehicle in such a manner that there is no standing water when the discharge is complete.
10. Septage shall not be applied during any precipitation event, or if there is standing water on the soil surface, if the soil surface is frozen, or if the soil surface is snow covered. The Permittee shall consider pending weather conditions when making the decision to land apply in order to prevent any discharge of septage outside of the permitted boundary.
11. Septage shall not be applied during periods of high soil moisture. Septage applications that will result in ruts greater than three inches in the soil surface are prohibited.
12. Any discharge of septage outside of the permitted boundaries via runoff, aerial drift, etc. is prohibited.
13. This permit shall become voidable unless the land application activities are carried out in accordance with the conditions of this permit and in the manner approved by this Division. No one other than the Permittee or an employee of the firm named in this permit shall discharge septage at this site without prior appropriate notification and written approval from the Division.

14. Prior to any transfer of this land, a notice shall be given to the new owner that gives full details of the materials applied or incorporated at this site. The Division shall be notified prior to site closure. This permit is non-transferable.
15. **This permit shall expire on December 3, 2018.** Modifications, when necessary, shall be made in accordance with the rules in effect at the time of renewal. An application for permit renewal shall be submitted at least ninety (90) days prior to the permit renewal date. A septage application log for the period of time this permit was valid shall be submitted along with an application for permit renewal or modification. The information required in the log is described in Rule 15A NCAC 13B .0838 (e)(1) of the NC Septage Management Rules and the Code of Federal Regulations, 40 CFR Part 503.17 (b).
16. Records shall be kept in accordance with 40 CFR 503.17(b). These records shall be made available to a representative of the Division upon request.
17. Any duly authorized officer, employee, or representative of the Division may, upon presentation of credentials, enter and inspect any property, premises, or place on or related to the disposal site and facility at any reasonable time for the purpose of determining compliance with this permit; may inspect or copy any records that must be kept under the conditions of this permit; or may obtain samples of groundwater, surface water, or leachate.
18. Field separations in the nutrient management plan and all pertinent setbacks shall be clearly located on the site. Boundaries of the permitted septage land application fields shall be clearly marked on the ground.
19. The areas that can be used for land application of septage shall be maintained at least 500 feet from any existing wells, residences, places of business, or places of public assembly. Septage shall not be disposed of within 50 feet of any property line, within 100 feet of any ditch or within 200 feet of any surface water unless specified otherwise.



North Carolina Department of Environment and Natural Resources

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July 2, 2014

Mr. Trent Rhea
Rhea's Septic Tank Service
5030 Harmon Road
King's Mountain, NC 28086

RE: **SLAS permit renewal**
Rhea's Septic Tank Service
SLAS-23-11
SR#2238 in Cleveland County

Dear Mr. Rhea:

The NC Division of Waste Management has reviewed your application to renew a Septage Land Application Site permit in Cleveland County. Your application has been approved and your permit, # **SLAS-23-11**, is enclosed. If you have any questions about your permit, we'll need the number in order to answer your questions. **Please note Permit Condition 7 which notes that GPS data indicated a slight reduction in permitted disposal acreage and application rate from previous permits.**

Please read all of your permit conditions carefully. Your nutrient management and soil erosion and runoff control plans have been included in your permit's conditions. In particular, review Permit Condition 15, which states that you will need to submit septage application logs for your site in order to renew your permit. These logs need to cover the entire time your current permit is valid. For details on the information you should include, consult the NC Septage Management Rule 15A NCAC 13B .0838(e)(1) and the Federal register's 40CFR Part 503.17(b). This permit condition also states that this permit is valid until **December 3, 2018**. If you have any questions, please ask for assistance as rule violations could expose you to administrative penalties.

Please note that to land apply industrial or commercial septage at a permitted septage disposal site you must have **prior approval** from the NC Division of Waste Management. The waste must be sampled prior to being removed from the system. Generally, the Division will request that you have a waste analysis run on septage from each commercial or industrial septage generator before that type of septage is approved for land application.

Use of a land application site or septage detention or treatment facility that is not permitted may result in administrative penalties up to \$15,000 per violation in accordance with NC General Statute 130A-22.

If you have any questions, please contact me at (910) 433-3352 or Martin Gallagher at (919) 707-8280.

Sincerely,

Connie S. Wylie, Soil Scientist
Division of Waste Management, NCDENR

Enclosures

cc: Donald Whitworth, landowner
Cleveland County Health Department

APPLICATION FOR A PERMIT TO OPERATE A SEPTAGE LAND APPLICATION SITE

North Carolina Department of Environment and Natural Resources
Division of Waste Management – Solid Waste Section
1646 Mail Service Center, Raleigh, NC 27699-1646



I. Site and Operator Information

1. Applicant

Address

Phone

Rhea's Septic Tank Service

5030 Harman Road

Kings Mountain, NC 28086

(704) 739-5849

2. Contact person for site operation (if different from applicant):

Title or position President / Vice President

Address

Phone (704) 739-5849

(same as above)

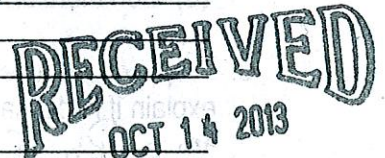
3. Landowner

Address

Catherine Whitworth

1141 Long Branch Road

Grover, NC 28073



DIVISION OF WASTE MANAGEMENT
FAYETTEVILLE REGIONAL OFFICE

4. Site Location:

County Cleveland

State Road Number #2238

Directions to site:

Hwy 74 W, turn (L) on Long Branch Rd. Go

Approx. 4-5 miles property on Right. turn a trailer follow

Gravel Road to field.

5. Indicate whether request is: new _____ renewal ☒ modification _____

For a permit renewal or modification, provide the following information:

Existing site permit number: 23-11

permit expiration date: 12-3-13

6. Number of acres meeting the requirements of the N.C. Septage Management Rules: 2.5 acres.

7. Substances other than septage or grease trap pumpings previously disposed of on the site:

(a) None ☒, or (b) Attach a list indicating other substances, the amounts discharged, and the dates of discharge.

8. Attach written, notarized landowner authorization to operate a septage disposal site signed by the landowner (if the permit applicant does not own the property). **If a corporation owns the land use a corporate landowner authorization form. If limited liability company owns the land, use a limited liability company landowner authorization form.**

9. Attach site evaluation report, including aerial photograph and soil analysis with metals results, unless the Division prepared the report.

on file

10. Attach a vicinity map (county road map showing site location).

(over)

on file

II. Site Management Information:

The following information shall be included with the application form:

1. Nutrient Management Plan *Reviewed - attach*
2. Soil Erosion and Runoff Control Plan *on file, Reviewed*
3. Alternative plan for disposal (detention facility permit number or wastewater treatment plant authorization): *23-20 SDTF, Shelby Wastewater Treatment Plant*
4. Types of septage proposed to be discharged at the site (check all that apply):
 - (a) Domestic septage pumped from septic tanks ☒
 - (b) Grease trap pumpings ☐
 - (c) Portable toilet waste ☒
 - (d) Commercial / Industrial septage ☐
5. Proposed treatment method of each type of septage to be land applied (use additional paper to explain if necessary): *Septage lime stabilized for a period of 30 minutes to a pH of 12 - lime is added to the septage in the pumper tank.*
6. Proposed method of applying septage to land, including septage distribution plan if required * (use additional paper to explain if necessary): *Septage applied to site with the pumper truck in motion with a splash plate attached for equal distribution.*
7. Demonstration from the appropriate state or federal government agency that the land application site complies with the Endangered Species Law ** or if any part of the site specified is not agricultural land (use additional paper to explain if necessary): *Site is Agricultural.*

III. Certification

I hereby certify that:

1. The information provided on this application is true, complete, and correct to the best of my knowledge.
2. I have read and understand the N.C. Septage Management Rules, and
3. I am aware of the potential consequences, including penalties and permit revocation, for failing to follow all applicable rules and the conditions of a Septage Land Application Site permit.

Trent Rhea
Signature***

10-6-13
Date

Trent Rhea
Print name

President / owner
Title

Note: This application will not be reviewed until all parts of the application are complete.

* Refer to Section .0837(e) of the N.C. Septage Management Rules.

** Refer to Section .0837(g) of the N.C. Septage Management Rules.

***Signature of company official required.

Landowner's Authorization to Operate a Septage Land Application Site

North Carolina Department of Environment and Natural Resources
Division of Waste Management - Solid Waste Section
1646 Mail Service Center, Raleigh, NC 27699-1646

I, Donald Whitworth (name of site owner) hereby certify that I am the owner of
4.5 acres of land located 1134 Long Branch Road
and identified by Map 4-13 B11C Lot 1-43 (book and page of recorded deed
or tax map parcel) and that I agree to allow Rheas Septic Tank SVC (name of site
operator) to use said land for septage land application for a period of 5 years (length
of time), beginning 12-3-13 (month, day and year) and that I have read the
North Carolina Septage Management Rules *, and I understand and agree to maintain the restrictions on
land use after septage land application ends **. I further understand that no septage may be land applied
until the Division of Waste Management has issued a permit for a septage land application site. The above
described property is owned solely by me or jointly with _____
_____. (names of all co-owners, or state none).

Signature of landowner Donald W. L. Whitworth Date 5-13-14

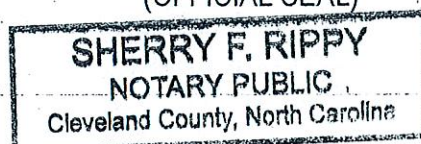
Signature of landowner _____ Date _____

Sworn to and subscribed before me this 13 day of May, 20 14.

Sherry F. Rippy
(Notary Public)

My Commission expires: 5/15/2015

(OFFICIAL SEAL)



* 15A N.C. Admin. Code 13B Section .0800

** As required by Rule .0843

NUTRIENT MANAGEMENT PLAN FOR SEPTAGE APPLICATIONS TO TALL FESCUE



Background for this plan:

This plan is for Jean Whitworth's property located on Long Branch Rd, Kings Mountain, NC. Pumper user has never exceeded total volume of 20,000 gallons per month. Two crops of hay per year will be harvested from the site. For maximum hay yields, additional nitrogen should be used.

1. General information:

- a. Septage will be sampled at least 2 times per year for waste analysis. These samples will be used to monitor nutrient loadings. Soil samples will be taken each fall.
- b. Total area permitted for septage applications on this site is ~~4.5~~ ^{2.5} acres. The site has less than 8 degree of slope. It will be managed as one piece, Field section #1. A 100 foot perimeter buffer is flagged along wet edge.
- c. The dominant soil series at this site is Hewlitt gravelly sandy loam.
- d. Septage will not be applied to where site is untrafficable. (Untrafficable is defined as soil that will allow a loaded truck to leave a depression in sod greater than 3 inches in depth.) In addition, septage will not be applied to frozen, saturated, or flooded ground. At these times septage will be stored in an approved structure.

2. Storage facilities:

- a. Septage storage shall be provided to account for the average volume of septage pumped per ~~month~~ ^{month at 20,000 gals.}

3. Crops to be grown:

- a. Entire area is already established in tall fescue.

4. Nitrogen needs for crops grown:

- a. Realistic Yield Expectation is 3.0 tons hay/acre/year for a nitrogen requirement of 120 lbs per acre.

5. Relative Application Rate for both field sections:

| Month | Application Rate | |
|-----------------|------------------|--------|
| January | Low | 5000 |
| February | Medium | 10000 |
| March | High | 15 |
| Harvest → April | Medium | 10 |
| May | Low | 5 |
| June | Low | 5 |
| July | Low | 5 |
| August | Low | 5 |
| September | Medium | 10,000 |

~~Harvest~~ October Low
 November Low
 December Low

None = 0 gallons; Low = 5,000 gallons; Medium = 10,000 gallons; High = 15,000 gallons per month

Note: Cumulative application rate is not to exceed the permitted application rate of 50,000 gallons per acre per year.

6. Application Method:
 - a. The preceding information is based on septage being evenly applied over the entire permitted site by pumper truck with a splash plate.
7. Additional Fertility Requirements:
 - a. Both phosphorus and potassium will be added in accordance with the standard soil test results for the crops grown. Additional nitrogen may be applied in February or August to promote maximum yields. The amount will be based on the 120 pound requirement of added N less the estimated 2.6 pounds for each 1,000 gallons septage applied.
 - b. The buffer area will be fertilized with 60 lbs N per acre and phosphorus and potassium rates recommended on the soil test report. Buffer area will not be harvested but weeds will be controlled by clipping.
8. Harvest of the Crops and Their Use
 - a. Hay will be harvested twice per year with a 30 day waiting period observed between the last application of septage and cutting the hay. On field #1, septage application will cease March 31 with hay harvest to begin as soon after May 1 as possible. Septage application may resume on the field as soon as hay is removed from the site. In the fall, septage application will cease on field #1 on October 1 with hay harvest to begin as soon after November 1 as possible.
9. Slopes and Buffers
 - a. Given that slopes on this site are under 8 percent, tall fescue buffer strips must be maintained to prevent septage waste from migrating off of the fields. For Field # 1 with a slope of eight percent or less, a 100 foot buffer, planted in tall fescue, should suffice to prevent septage waste from migrating off of the field into the wet area. Buffer will not be harvested but weeds will be controlled by clipping as appropriate. Leaving the buffer uncut will reduce risk of litter runoff. All other edges are bordered by mature hardwood forest.
10. The septage will be lime stabilized to raise the pH of 1000 gallons of septage to 12 or greater for 30 minutes. The lime will be added to the septage at the time it is pumped into the pumper tank.

Submitted by:

Trent L Rhea

Date: 12-7-97

Trent L Rhea

10-29-01

Trent L Rhea

10-1-02

Trent L Rhea

9-2-08

10-6-13

AMENDMENT TO NUTRIENT MANAGEMENT PLAN

Areas that develop with less than 80% groundcover by fescue will be reseeded with fescue at a rate of 100 lbs/acre 3 (seeding method) in April (month).

Weed control may be needed in order to maintain 80% groundcover and to produce the realistic yield expectations for the approved cropstand. Weed control can be obtained through different methods (mowing or herbicides) or a combination of methods. For specific recommendations, proper identification of the weed or weeds is necessary. The local cooperative extension agent or regional agronomist may be contacted for advice.

Alternative disposal sites for septage when this land application site is unavailable due to weather conditions or the 30 day waiting period between the last application event and the harvest of the crop are Broad River WTP (Shelby NC)

Trent Rhea
Signature

5 23 14
Date

RECEIVED
MAY 27 2014

DIVISION OF WASTE MANAGEMENT
FAYETTEVILLE REGIONAL OFFICE

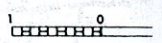
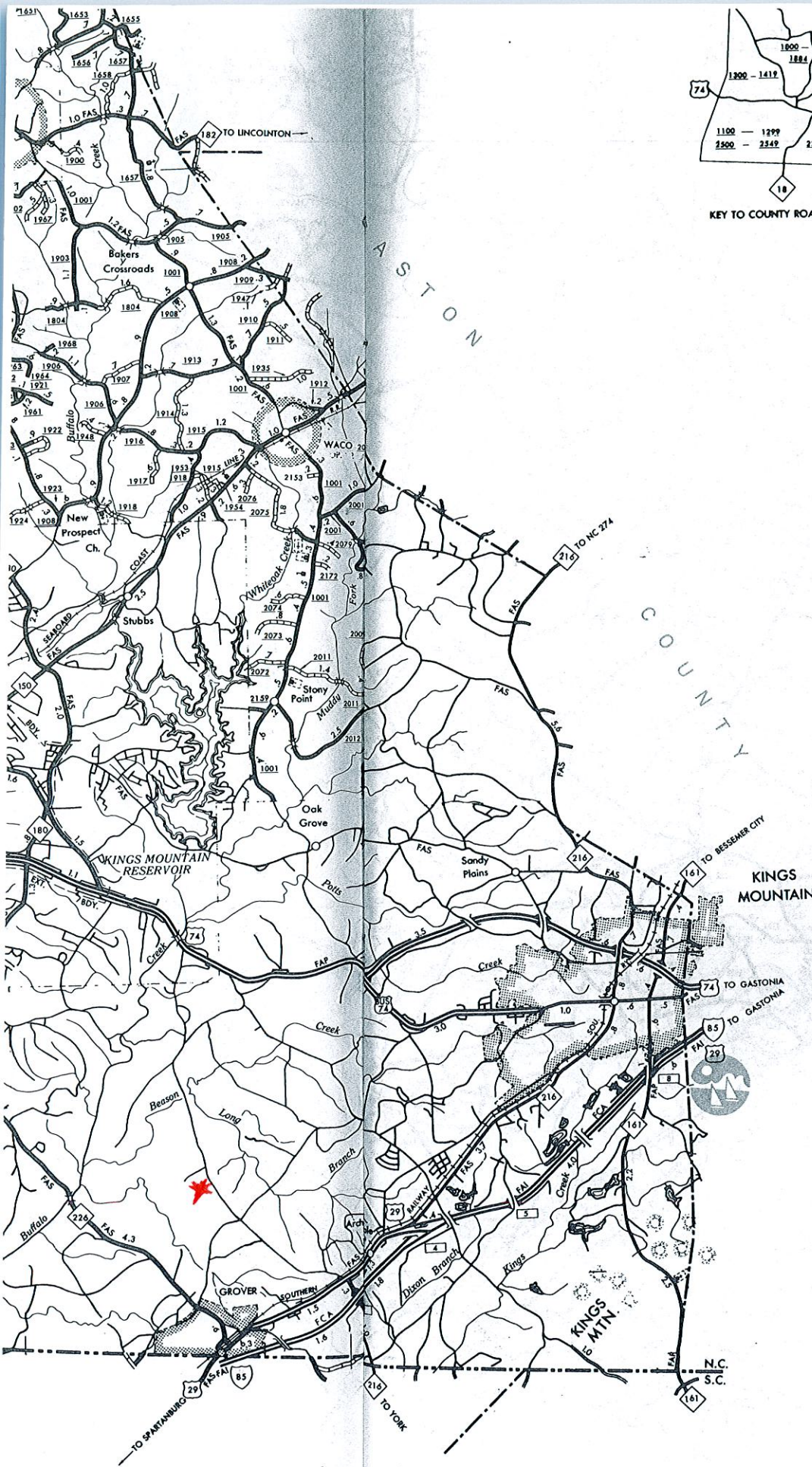
SLAS-23-11

35.20221° N latitude
-81.45483° E longitude



Source: Aerial image from Esri, DigitalGlobe, GeoEye, i-cubed, USDA FSA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community. Site boundary from NC DENR Division of Waste Management. Map created by NC DENR Division of Waste Management for permitting purposes only.

crc, June 2014



Hwy 74 W
 turn L on Longbranch Rd
 Go \approx 4-5 miles
 property on right
 turn δ track
 follow gravel road
 to field